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cagtggcagt ggatctggga cagatttcac tctcaccatc agcagcctac agcctgaaga 660

tgttgcaact tattactgtc aaaggtataa ccgtgcaccg tatacttttg gccaggggac 720

caaggtggaa atcaaataag ctt 743

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<212> DNA
<213> Homo sapiens

<400> 55
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<210> 56
<211> 758
<212> DNA

<213> Homo sapiens

<400> 56
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atgcactggg tccggcaagc tccagggaag ggcctggaat gggtctcagc tatcacttgg 180

aatagtggtc acatagacta tgcggactct gtggagggcc gattcaccat ctccagagac 240

aacgccaaga actccctgta tctgcaaatg aacagtctga gagctgagga tacggccgta 300

tattactgtg cgaaagtctc gtaccttagc accgcgtcct cccttgacta ttggggccaa 360

ggtaccctgg tcaccgtctc gagtggtggc ggcgggatcc gggggaggag gtagtggcgg 420

tggtggatca gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctgtagggga 480

cagagtcacc atcacttgtc gggcaagtca gggcatcaga aattacttag cctggtatca 540

gcaaaaacca gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaatcagg 600

ggtcccatct cggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag 660

cctacagcct gaagatgttg caacttatta ctgtcaaagg tataaccgtg caccgtatac 720

ttttggccag gggaccaagg tggaaatcaa ataagctt 758

<210> 57
<211> 38
<212> DNA
<213> Homo sapiens

<400> 57
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<210> 58
<211> 18
<212> DNA
<213> Homo sapiens

<400> 58
catgcaggta cccagcag 18

<210> 59
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<212> DNA
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<400> 59
ctgctgggta cctgcatg 18

<210> 60
<211> 32
<212> DNA
<213> Homo sapiens

<400> 60
cggcacggta ccgctcctga gcttgttctc ac 32

<210> 61

<211> 354
<212> DNA
<213> Homo sapiens

<400> 61
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gtggaccagg aggagcgctt tccacagggc ctgtggacgg gggtggctat gagatcctgc 120

cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300

cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagcgg tacc 354

<210> 62
<211> 31
<212> DNA
<213> Homo sapiens

<400> 62
cggcacggta ccaaggttca ctgggctcct g 31

<210> 63
<211> 366
<212> DNA
<213> Homo sapiens

<400> 63
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gtggaccagg aggagcgctt tccacagggc ctgtggacgg gggtggctat gagatcctgc 120

cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300

cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt 360

ggtacc 366

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<212> DNA
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<400> 64
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<210> 65
<211> 396
<212> DNA
<213> Homo sapiens

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gtggaccagg aggagcgctt tccacagggc ctgtggacgg gggtggctat gagatcctgc 120

cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300

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ccaccagagc tcaggagaca gcggagtgga ggtacc 396

<210> 66
<211> 36
<212> DNA
<213> Homo sapiens

<400> 66
cggcacggta ccagggctca acagacttaa caaaag 36

<210> 67
<211> 426
<212> DNA
<213> Homo sapiens

<400> 67
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gtggaccagg aggagcgctt tccacagggc ctgtggacgg gggtggctat gagatcctgc 120

cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300

cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt 360

ccaccagagc tcaggagaca gcggagtgga gaagttgaaa acaattcaga caactcggga 420

ggtacc 426

<210> 68
<211> 31
<212> DNA
<213> Homo sapiens

<400> 68
cggcacggta ccgctgtaga ccagggccac c 31

<210> 69
<211> 519
<212> DNA
<213> Homo sapiens

<400> 69
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gtggaccagg aggagcgctt tccacagggc ctgtggacgg gggtggctat gagatcctgc 120

cccgaagagc agtactggga tcctctgctg ggtacctgca tgtcctgcaa aaccatttgc 180

aaccatcaga gccagcgcac ctgtgcagcc ttctgcaggt cactcagctg ccgcaaggag 240

caaggcaagt tctatgacca tctcctgagg gactgcatca gctgtgcctc catctgtgga 300

cagcacccta agcaatgtgc atacttctgt gagaacaagc tcaggagccc agtgaacctt 360

ccaccagagc tcaggagaca gcggagtgga gaagttgaaa acaattcaga caactcggga 420

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ctgagtgcag atcaggtggc cctggtctac agcggtacc 519

<210> 70
<211> 41
<212> DNA
<213> Homo sapiens

<400> 70
ggccagggat ccatcgaggg taggggggag caagcgccag g 41

<210> 71
<211> 31
<212> DNA
<213> Homo sapiens

<400> 71
cggtgcggta ccgggccaaa gcagccggaa g 31

<210> 72
<211> 186
<212> DNA
<213> Homo sapiens

<400> 72
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tcctggagcg cggacctgga caagtgcatg gactgcgcgt cttgcagggc gcgaccgcac 120

agcgacttct gcctgggctg cgctgcagca cctcctgccc ccttccggct gctttggccc 180

ggtacc 186

<210> 73
<211> 41
<212> DNA
<213> Homo sapiens

<400> 73
ggccagggat ccatcgaggg taggatgagg cgagggcccc g 41

<210> 74
<211> 28
<212> DNA
<213> Homo sapiens

<400> 74
cggtgcggta ccgagcagcc cgggcagg 28

<210> 75
<211> 258
<212> DNA
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<400> 75

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gcccccacgc cctgcgtccc ggccgagtgc ttcgacctgc tggtccgcca ctgcgtggcc 120

tgcgggctcc tgcgcacgcc gcggccgaaa ccggccgggg ccagcagccc tgcgcccagg 180

acggcgctgc agccgcagga gtcggtgggc gcgggggccg gcgaggcggc gctgcccctg 240

cccgggctgc tcggtacc 258

<210> 76
<211> 235
<212> PRT
<213> Homo sapiens

<400> 76

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val
180 185 190

His Leu Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr

195 200 205

Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly
210 215 220

Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly Asp
225 230 235

<210> 77
<211> 185
<212> PRT
<213> Homo sapiens

<400> 77

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala
165 170 175

Val Cys Thr Ser Thr Ser Pro Thr Arg
180 185

<210> 78

<211> 163
<212> PRT
<213> Homo sapiens

<400> 78

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
50 55 60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65 70 75 80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
85 90 95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
100 105 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
115 120 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro
130 135 140

Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg Pro His
145 150 155 160

Gln Ile Cys

<210> 79
<211> 142
<212> PRT
<213> Homo sapiens

<400> 79

Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser
1 5 10 15

Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys
20 25 30

Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr
35 40 45

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Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu
    50                  55                  60

Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser
65                  70                  75                  80

Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys
                85                  90                  95

Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys
            100                 105                 110

Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala
        115                 120                 125

Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
    130                 135                 140
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<210> 80
<211> 157
<212> PRT
<213> Homo sapiens

<400> 80

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Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
            20                  25                  30

Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
        35                  40                  45

Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
    50                  55                  60

Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
65                  70                  75                  80

Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
                85                  90                  95

Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
            100                 105                 110

Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
        115                 120                 125

Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
    130                 135                 140
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Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
145 150 155

<210> 81
<211> 51
<212> PRT
<213> Homo sapiens

<400> 81

Glu Pro Pro Thr Gln Lys Pro Lys Lys Leu Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu
50

<210> 82
<211> 39
<212> DNA
<213> Artificial

<220>
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<210> 83
<211> 33
<212> DNA
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<220>
<223> oligonucleotide primer

<400> 83
caccacggta ccgatctggt ggggcctgca aat 33

<210> 84
<211> 738
<212> DNA
<213> Artificial

<220>
<223> AD1D4-I162-tripB

<400> 84
atgggatcca tggcccaggt ggcatttaca ccctacgccc cggagcccgg gagcacatgc 60

cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

aggcccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360

cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tcggtaccga gccaccaacc cagaagccca agaagattgt aaatgccaag 540

aaagatgttg tgaacacaaa gatgtttgag gagctcaaga gccgtctgga caccctggcc 600

caggaggtgg ccctgctgaa ggagcagcag gccctgcaga cggtctccct gaagggtcta 660

gaacaaaaac tcatctcaga agaggatctg aatagcgccg tcgaccatca tcatcatcat 720

cattgaaagc tgaattcc 738

<210> 85
<211> 51
<212> DNA
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<220>
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<400> 85
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<210> 86
<211> 810
<212> DNA
<213> Artificial

<220>
<223> AD1D4-GSS-tripB

<400> 86
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

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cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540

acgtccacgt cctccggttc ctccggtacc gagccaccaa cccagaagcc caagaagatt 600

gtaaatgcca agaaagatgt tgtgaacaca aagatgtttg aggagctcaa gagccgtctg 660

gacaccctgg cccaggaggt ggccctgctg aaggagcagc aggccctgca gacggtctcc 720

ctgaagggtc tagaacaaaa actcatctca gaagaggatc tgaatagcgc cgtcgaccat 780

catcatcatc atcattgaaa gctgaattcc 810

<210> 87
<211> 39
<212> DNA
<213> Artificial

<220>
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<400> 87
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<210> 88
<211> 957
<212> DNA
<213> Artificial

<220>
<223> AD1D4-D235-tripB

<400> 88
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

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cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540

acgtccacgt cccccacccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 600

tccacacgat cccaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 660

ttcctgctcc caatgggccc cagcccccca gctgaaggga gcactggcga cggtaccgag 720

ccaccaaccc agaagcccaa gaagattgta aatgccaaga aagatgttgt gaacacaaag 780

atgtttgagg agctcaagag ccgtctggac accctggccc aggaggtggc cctgctgaag 840

gagcagcagg ccctgcagac ggtctccctg aagggtctag aacaaaaact catctcagaa 900

gaggatctga atagcgccgt cgaccatcat catcatcatc attgaaagct gaattcc 957

<210> 89
<211> 711
<212> DNA
<213> Artificial

<220>
<223> AD1D4-I162-I10-TripB

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caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

aggcccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360

cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tcggtaccat tgtaaatgcc aagaaagatg ttgtgaacac aaagatgttt 540

gaggagctca agagccgtct ggacaccctg gcccaggagg tggccctgct gaaggagcag 600

caggccctgc agacggtctc cctgaagggt ctagaacaaa aactcatctc agaagaggat 660

ctgaatagcg ccgtcgacca tcatcatcat catcattgaa agctgaattc c 711

<210> 90
<211> 711
<212> DNA
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<220>
<223> AD1D4-GSS-I10-tripB

<400> 90
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

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cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tcggtaccat tgtaaatgcc aagaaagatg ttgtgaacac aaagatgttt 540

gaggagctca agagccgtct ggacaccctg gcccaggagg tggccctgct gaaggagcag 600

caggccctgc agacggtctc cctgaagggt ctagaacaaa aactcatctc agaagaggat 660

ctgaatagcg ccgtcgacca tcatcatcat catcattgaa agctgaattc c 711

<210> 91
<211> 930
<212> DNA
<213> Artificial

<220>
<223> AD1D4-D235-I10-tripB

<400> 91
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

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cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540

acgtccacgt cccccacccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 600

tccacacgat cccaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 660

ttcctgctcc caatgggccc cagcccccca gctgaaggga gcactggcga cggtaccatt 720

gtaaatgcca agaaagatgt tgtgaacaca aagatgtttg aggagctcaa gagccgtctg 780

gacaccctgg cccaggaggt ggccctgctg aaggagcagc aggccctgca gacggtctcc 840

ctgaagggtc tagaacaaaa actcatctca gaagaggatc tgaatagcgc cgtcgaccat 900

catcatcatc atcattgaaa gctgaattcc 930

<210> 92
<211> 31
<212> DNA
<213> Artificial

<220>
<223> pKpnI-V17

<400> 92
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<210> 93
<211> 35
<212> DNA
<213> Artificial

<220>
<223> pBAD6H

<400> 93
ggctcggaat tcaatgatga tgatgatgat ggtcg 35

<210> 94
<211> 762
<212> DNA
<213> Artificial

<220>
<223> AD1D4-GSS-V17-tripB

<400> 94
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

aggcccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360

cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540

acgtccacgt cctccggttc ctccggtacc gttgtgaaca caaagatgtt tgaggagctc 600

aagagccgtc tggacaccct ggcccaggag gtggccctgc tgaaggagca gcaggccctg 660

cagacggtct ccctgaaggg tctagaacaa aaactcatct cagaagagga tctgaatagc 720

gccgtcgacc atcatcatca tcatcattga aagctgaatt cc 762

<210> 95
<211> 909
<212> DNA
<213> Artificial

<220>
<223> AD1D4-D235-V17-tripB

<400> 95
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cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaatg ctcgccgggc 120

caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac 180

agcacataca cccagctctg gaactgggtt cccgagtgct tgagctgtgg ctcccgctgt 240

agctctgacc aggtggaaac tcaagcctgc actcgggaac agaaccgcat ctgcacctgc 300

aggcccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgccgctg 360

cgcaagtgcc gcccgggctt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 420

tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 480

ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 540

acgtccacgt cccccacccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 600

tccacacgat cccaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 660

ttcctgctcc caatgggccc cagcccccca gctgaaggga gcactggcga cggtaccgtt 720

gtgaacacaa agatgtttga ggagctcaag agccgtctgg acaccctggc ccaggaggtg 780

gccctgctga aggagcagca ggccctgcag acggtctccc tgaagggtct agaacaaaaa 840

ctcatctcag aagaggatct gaatagcgcc gtcgaccatc atcatcatca tcattgaaag 900

ctgaattcc 909

<210> 96
<211> 181
<212> PRT
<213> Homo sapiens

<400> 96

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val Asp Met Thr Gly
115 120 125

Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 97
<211> 137
<212> PRT
<213> Homo sapiens

<400> 97

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp Val
65 70 75 80

Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 98
<211> 102
<212> DNA
<213> Artificial

<220>
<223> TN-lib3-tprev

<220>
<221> misc_feature
<222> (22)..(23)
<223> randomised

<220>
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<222> (25)..(26)
<223> randomised

<220>
<221> misc_feature
<222> (28)..(29)
<223> randomised

<220>
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<222> (31)..(32)
<223> randomised

<220>

<221> misc_feature
<222> (34)..(35)
<223> randomised

<220>
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<222> (37)..(38)
<223> randomised

<220>
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<222> (40)..(41)
<223> randomised

<400> 98
gagatctggc tgggcctcaa cnnsnnsnns nnsnnsnnsn nstgggtgga catgaccggt 60

acccgcatcg cctacaagaa ctgggagact gagatcaccg cg 102

<210> 99
<211> 94
<212> DNA
<213> Artificial

<220>
<223> TN-lib2-tprev

<220>
<221> misc_feature
<222> (17)..(17)
<223> randomised

<220>
<221> misc_feature
<222> (18)..(18)
<223> randomised

<220>
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<222> (20)..(21)
<223> randomised

<220>
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<222> (23)..(24)
<223> randomised

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<222> (29)..(29)
<223> randomised

<220>
<221> misc_feature
<222> (30)..(30)
<223> randomised

<220>
<221> misc_feature
<222> (32)..(33)
<223> randomised

<400> 99
gctgggcctc aacgacnnsn nsnnsgagnn snnstgggtg gacatgaccg gtacccgcat 60

cgcctacaag aactgggaga ctgagatcac cgcg 94

<210> 100
<211> 108
<212> DNA
<213> Artificial

<220>
<223> TN-lib3-tpfo

<220>
<221> misc_feature
<222> (63)..(64)
<223> randomised

<220>
<221> misc_feature
<222> (66)..(67)
<223> randomised

<220>
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<222> (69)..(70)
<223> randomised

<220>
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<222> (72)..(73)
<223> randomised

<220>
<221> misc_feature
<222> (75)..(76)
<223> randomised

<220>
<221> misc_feature
<222> (78)..(79)
<223> randomised

<400> 100
cgcggcagcg cttgtcgaac cacttgccgt tggccgcgcc tgacaggacc gcgcagttct 60

csnnsnnsnn snnsnnsnna tcgggttgcg cggtgatctc agtctccc 108

<210> 101
<211> 102
<212> DNA
<213> Artificial

<220>
<223> TN-lib2-tpfo

<220>
<221> misc_feature
<222> (63)..(64)
<223> randomised

<220>
<221> misc_feature
<222> (66)..(67)
<223> randomised

<220>
<221> misc_feature
<222> (69)..(70)
<223> randomised

<220>
<221> misc_feature
<222> (72)..(73)
<223> randomised

<400> 101
cgcggcagcg cttgtcgaac cacttgccgt tggccgcgcc tgacaggacc gcgcagttct 60

csnnsnnsnn snnatcgggt tgcgcggtga tctcagtctc cc 102

<210> 102
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2

<400> 102

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Arg His Thr Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 103
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-B

<400> 103

Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1 5 10 15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
20 25 30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
35 40 45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
50 55 60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met
65 70 75 80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 104
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-C

<400> 104

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Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1               5                  10                  15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
            20                  25                  30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
        35                  40                  45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
    50                  55                  60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val
65                  70                  75                  80

Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
                85                  90                  95

Thr Ala Gln Pro Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser
            100                 105                 110

Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu
        115                 120                 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
    130                 135
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<210> 105
<211> 137
<212> PRT
<213> Artificial

<220>
<223> TN3-2-D

<400> 105

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Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys
1               5                  10                  15

Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp
            20                  25                  30

Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu
        35                  40                  45

Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala
    50                  55                  60

Glu Ile Trp Leu Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile
65                  70                  75                  80
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Asp Met Thr Gly Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile
85 90 95

Thr Ala Gln Pro Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser
100 105 110

Gly Ala Ala Asn Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu
115 120 125

Pro Tyr Ile Cys Gln Phe Gly Ile Val
130 135

<210> 106
<211> 181
<212> PRT
<213> Artificial

<220>
<223> TN-2-B

<400> 106

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Met Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Asn Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys

165 170 175

Gln Phe Gly Ile Val
180

<210> 107
<211> 181
<212> PRT
<213> Artificial

<220>
<223> TN-2-D

<400> 107

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Ile Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Asn Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Gly Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 108
<211> 181

<212> PRT
<213> Artificial

<220>
<223> TN-2-C

<400> 108

Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val Asn Ala Lys Lys Asp
1 5 10 15

Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys Ser Arg Leu Asp Thr
20 25 30

Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln Gln Ala Leu Gln Thr
35 40 45

Val Cys Leu Lys Gly Thr Lys Val His Met Lys Cys Phe Leu Ala Phe
50 55 60

Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu Asp Cys Ile Ser Arg
65 70 75 80

Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser Glu Asn Asp Ala Leu
85 90 95

Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu Ala Glu Ile Trp Leu
100 105 110

Gly Leu Asn Lys Val Arg Ser Arg Tyr Phe Trp Val Asp Met Thr Gly
115 120 125

Thr Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu Ile Thr Ala Gln Pro
130 135 140

Asp Pro Thr Asn Arg Glu Asn Cys Ala Val Leu Ser Gly Ala Ala Asn
145 150 155 160

Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln Leu Pro Tyr Ile Cys
165 170 175

Gln Phe Gly Ile Val
180

<210> 109
<211> 256
<212> PRT
<213> Artificial

<220>
<223> AD1D4-GSS-I10

<400> 109

Met Gly Ser Met Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro

1 5 10 15

Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met
20 25 30

Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr
35 40 45

Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr
50 55 60

Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys
65 70 75 80

Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg
85 90 95

Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu
100 105 110

Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly
115 120 125

Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys
130 135 140

Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr Asp Ile Cys Arg
145 150 155 160

Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met
165 170 175

Asp Ala Val Cys Thr Ser Thr Ser Ser Gly Ser Ser Gly Thr Ile Val
180 185 190

Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
195 200 205

Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
210 215 220

Gln Ala Leu Gln Thr Val Ser Leu Lys Gly Leu Glu Gln Lys Leu Ile
225 230 235 240

Ser Glu Glu Asp Leu Asn Ser Ala Val Asp His His His His His His
245 250 255